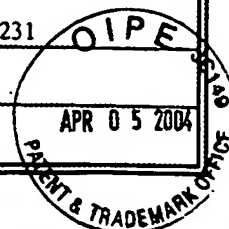


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U.S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
JB	AA	1,855,658	11/18/1929	Whipple <i>et al.</i>			
	AB	2,757,375	10/06/1953	Rieutord <i>et al.</i>	<del>259</del>	<del>56</del>	
	AC	3,389,974	06/25/1968	Barattini <i>et al.</i>	165	84	
	AD	3,830,474	08/20/1974	Tannenbaum	<del>259</del>	<del>59</del>	
	AE	4,178,776	12/18/1979	Baldus <i>et al.</i>	62	538	
	AF	4,336,435	06/22/1982	Kashyap <i>et al.</i>	219	10.55	
	AG	4,385,524	05/31/1983	Cappel	73	663	
	AH	4,473,739	09/25/1984	Scheiwe <i>et al.</i>	366	209	
	AI	4,652,712	03/24/1987	Zeipel	219	10.55	
	AJ	4,801,777	01/31/1989	Auerbach	219	10.55M	
	AK	4,843,827	07/04/1989	Peppers	62	73	
	AL	4,954,679	09/04/1990	Harms <i>et al.</i>	219	10.55	
	AM	5,243,833	09/14/1993	Coelho <i>et al.</i>	62	376	
	AN	5,520,885	05/28/1996	Coelho <i>et al.</i>	422	101	
	AO	5,524,706	06/11/1996	Nakamura <i>et al.</i>	165	47	
	AP	5,535,598	07/16/1996	Cothorn <i>et al.</i>	62	356	
	AQ	5,616,268	04/01/1997	Carr	219	687	
	AR	5,779,974	07/14/1998	Kuzyk	422	44	
	AS	5,863,715	01/26/1999	Rajotte <i>et al.</i>	435	1.3	
	AT	5,873,254	02/23/1999	Arav	62	63	
✓	AU	5,939,023	08/17/1999	Coelho <i>et al.</i>	422	101	
JB	AV	5,999,701	12/07/1999	Schmidt	392	470	

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TS	AW	6,007,773	12/28/1999	Kuzyk	422	44	
	AX	6,196,296	03/06/2001	Wisniewski	165	47	
	AY	6,299,344	10/09/2001	Tannenbaum	366	212	
↓	AZ	6,384,380	05/07/2002	Faries, Jr. <i>et al.</i>	219	385	
BS	AAA	6,387,322	05/14/2002	Gallus	422	38	

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		DOCUMENT NUMBER	Date	Country	Class	Subclas s	Translation	
							Yes	No
TS	BA	FR 2501057	10/09/1981	FRANCE	B01F 11/00	—		X
	BB	DE 3047784	07/01/1982	GERMANY	C12N 5/00	—		X
	BC	JP 63-7829	01/13/1988	JAPAN	B01F 01/00	—	Abstract	X
	BD	JP 63-296831	12/02/1988	JAPAN	B01F 01/00	—	Abstract	X
	BE	JP 2-187138	07/23/1990	JAPAN	B01F 01/00	—	Abstract	X
	BF	JP 2-261371	10/24/1990	JAPAN	C12M 001/00	—	Abstract	X
	BG	JP 4-330271	11/18/1992	JAPAN	C12M 001/02	—	Abstract	X
	BH	WO 97/24152	07/10/1997	PCT	A61M 5/44	—		X
↓	BI	WO 98/34078	08/06/1998	PCT	F25D 31/00	—	X	
TS	BJ	WO 00/72902	12/07/2000	PCT	A61M 5/44	—	X	

## Other Documents (including Author, Title, Date, pertinent public. etc.)

TS	CA	Quan <i>et al.</i> , "Effects of Vibration on Ice Contact Melting within Rectangular Enclosures," J. of Heat Transfer, Vol. 120, 1998, pp. 518-520.
TS	CB	Wisniewski <i>et al.</i> , "Large-Scale Freezing and Thawing of Biopharmaceutical Drug Product", Proceedings of the International Congress: Advanced Technologies for Manufacturing of Aseptic & Terminally Sterilized Pharmaceutical & Biopharmaceuticals; Base, Switzerland, February 17-19, 1992: pp. 132-140.
TS	CC	Wisniewski <i>et al.</i> , "Large-Scale Freezing and Thawing of Biopharmaceutical Products", Biotechnology and Biopharmaceutical Manufacturing, Processing, and Preservation; Drug Manufacturing Technology Series: Vol. 2 pp. 7-59.

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TB	CD	Wisniewski, R., "Developing Large -Scale Cryopreservation Systems for Biopharmaceutical Products", Bio-Pharm; June 1998: pp. 50-60 ,
TB	CE	Wisniewski <i>et al.</i> , "Large-Scale Freezing and Thawing of Biopharmaceutical Drug Product", Pharm Tech Conference; 16-19 September 1996, Sheraton Meadowlands, East Rutherford, New Jersey; pp 385-92 ,

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